

1. A method for transferring a facsimile using a Transmission Control

Protocol/Internet Protocol (TCP/IP) network, the method comprising:

converting the facsimile into application packets that indicate individual
application packet lengths;

5 converting the application packets into TCP/IP packets;

transferring the TCP/IP packets to the TCP/IP network and receiving the
transferred TCP/IP packets from the TCP/IP network;

converting the transferred TCP/IP packets into transferred application packets;
and

10 converting the transferred application packets into the facsimile using the
individual application packet lengths.

2. The method of claim 1 further comprising receiving the facsimile from a telephone
network.

15 3. The method of claim 1 further comprising transferring the facsimile to a telephone
network.

20 4. The method of claim 1 wherein the individual application packet lengths are
indicated for each respective application packet by adding an application packet
length field to the respective application packet.

6. A method for transferring a first facsimile and a second facsimile using a Transmission Control Protocol/Internet Protocol (TCP/IP) network, the method comprising:

converting the first facsimile into first application packets that indicate individual first application packet lengths;
transferring the first application packets to a TCP/IP layer;
receiving second application packets from the TCP/IP layer; and
converting the second application packets into the second facsimile using individual second application packet lengths in the second application packets.

7. The method of claim 6 further comprising in the TCP/IP layer:

converting the first application packets into first TCP/IP packets;
transferring the first TCP/IP packets to the TCP/IP network;
receiving second TCP/IP packets from the TCP/IP network; and
converting the second TCP/IP packets into the second application packets.

8. The method of claim 7 further comprising receiving the first facsimile from a telephone network.

9. The method of claim 7 further comprising transferring the second facsimile to a telephone network.

10. The method of claim 6 wherein the individual first and second application packet lengths are indicated for each respective application packet by adding an application packet length field to the respective application packet.

- 5 11. The method of claim 6 further comprising converting the first facsimile into the first application packets and converting the second application packets into the second facsimile using equipment implementing International Telecommunication Union Recommendation T.38.

12. A facsimile system for transferring a facsimile using a Transmission Control Protocol/Internet Protocol (TCP/IP) network, the facsimile system comprising:

a first communication processing system configured to convert the facsimile into application packets that indicate individual application packet lengths, convert the application packets into TCP/IP packets, and transfer the TCP/IP packets to the TCP/IP network; and

a second communication processing system configured to receive the transferred TCP/IP packets from the TCP/IP network, convert the transferred TCP/IP packets into transferred application packets, and convert the transferred application packets into the facsimile using the individual application packet lengths.

13. The facsimile system of claim 12 wherein the first communication processing system is configured to receive the facsimile from a telephone network.

14. The facsimile system of claim 12 wherein the second communication processing system is configured to transfer the facsimile to a telephone network.

15. The facsimile system of claim 12 wherein the first communication processing system is configured to indicate the individual application packet lengths for each respective application packet by adding an application packet length field to the respective application packet.

17. A communication processing system for transferring a first facsimile and a second facsimile using a Transmission Control Protocol/Internet Protocol (TCP/IP) network, the facsimile system comprising:

an application processing system configured to convert the first facsimile into first application packets that indicate individual first application packet lengths and convert second application packets into the second facsimile using individual second application packet lengths in the second application packets; and

an interface coupled to the application processing system and configured to transfer the first application packets to a TCP/IP processing system and receive the second application packets from the TCP/IP processing system.

18. The communication processing system of claim 17 further comprising the TCP/IP processing system coupled to the interface and configured to convert the first application packets into first TCP/IP packets, transfer the first TCP/IP packets to the TCP/IP network, receive second TCP/IP packets from the TCP/IP network, convert the second TCP/IP packets into the second application packets, and transfer the second application packets to the interface.

19. The communication processing system of claim 18 wherein the application processing system is further configured to receive the first facsimile from a telephone network.

20. The communication processing system of claim 18 wherein the application processing system is further configured to transfer the second facsimile to a telephone network.

5 21. The communication processing system of claim 17 wherein the application processing system is configured to indicate the individual first and second application packet lengths for each respective application packet by adding an application packet length field to the respective application packet.

10 22. The communication processing system of claim 17 wherein the application processing system is configured to implement International Telecommunication Union Recommendation T.38.